North of the Delta Offstream Storage Investigation

Progress Report

Appendix A:
Botanical Resources Report

January 2000

Integrated Storage Investigations

> CALFED BAY-DELTA PROGRAM

<u>Section</u> <u>Page</u>

SUMMARY

INTRODUCTION

- 1 Methodology
 - 1.1. General Vegetation
 - 1.2. Sensitive Plants
 - 1.2.1. High Priority Species Background
 - 1.2.2. Priority and Low Priority Species
 - 1.3. Field Survey Methods
- 2 Results
 - 2.1. General Vegetation: Summary of Findings
 - 2.2. Sensitive Plants: Summary of Findings
 - 2.2.1. Sites and Colusa Cell Reservoirs
 - 2.2.2. Newville Reservoir
 - 2.2.3. Red Bank Reservoir
 - 2.2.4. Documentation
 - 2.3. Discussion
 - 2.3.1. Sites and Colusa Cell Reservoir
 - 2.3.2. Newville
 - 2.3.3. Red Bank
 - 2.3.4. Future Needs

References Notes

Attachments

- 1. Mapped clay and Lodo shale soil
 - a. Sites Clay Soils
 - b. Colusa Cell Clay Soils
 - c. Newville Clay and Lodo Shale Soils
 - d. Red Bank Clay and Lodo Shale Soils
- 2. Botanical survey personnel
- 1998-1999 botanical field survey log
- 4. ArcView mapped vegetation
 - a. Sites Vegetation
 - b. Colusa Cell Vegetation
 - c. Newville Vegetation
 - d. Schoenfield Vegetation

January 4, 2000

- e. Dippingvat Vegetation
- 5. 1998-1999 plant species observed
- 6. 1998-1999 plant voucher collection
- 7. a. Explanation of prioritized plant species name and spreadsheet column acronyms
 - b. 1998-1999 prioritized plant species population occurrence records
- 8. 1998-1999 photographs of prioritized plants and vegetation communities

Tables

Page

- 1.2.1. High priority plant species with potential to occur in the vicinity of the Offstream Storage Reservoir Projects, Tehama, Glenn, and Colusa counties, California.
- 1.2.2. Probability estimates for occurrence of high priority plant species in the four Offstream Storage Reservoirs.
- 1.2.3. Priority plant species with potential to occur in the vicinity of the Offstream Storage Reservoir Projects, Tehama, Glenn and Colusa counties, California.
- 1.2.4. Low priority plant species with potential to occur in the vicinity of the Offstream Storage Reservoir Project, Tehama, Glenn and Colusa counties, California.
- 1.2.5. Acreage estimates of Lodo shale and clay soil which are associated with sensitive plant species in the Offstream Storage Reservoirs.
- 1.2.6. Total precipitation and percent of average for water year 1998 and 1999 in Red Bluff, Orland, and East Park Reservoir, California.
- 2.1. Acreage estimates for the dominant vegetation communities mapped within the Offstream Storage Reservoir alternatives, 1999.
- 2.2.1. Summary of Prioritized Plant Species found in the Offstream Storage Reservoir project, 1998-1999.
- 2.2.2. Diversity of vascular plant families, genera, and species by reservoir, and native and non-native species.

Figures

- 2.1. Percent Dominant Vegetation by Reservoir Site
- 2.2. 2.2.1. Sites Botanical Resources Survey Coverage 1998-1999
 - 2.2.2. Colusa Cell Botanical Resources Survey Coverage 1998-1999
 - 2.2.3. Newville Botanical Resources Survey Coverage 1998-1999
 - 2.2.4. Red Bank Botanical Resources Survey Coverage 1998-1999